



METROPOLITAN
TRANSPORTATION
COMMISSION

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Memorandum

TO: Administration Committee

DATE: April 4, 2011

FR: Executive Director

W. I. 1412

RE: Contract Amendment: UrbanSim Visualization Tool for Plan Bay Area: The Regents of the University of California (\$150,000)

MTC staff requests the Committee's approval to authorize a contract amendment of \$150,000 for consultant assistance to integrate the Association of Bay Area Governments' (ABAG) Steelhead land use model with the open source UrbanSim visualization tool being developed by the University of California. In November 2010, this Committee authorized the initial contract for \$600,000 with University of California to develop the UrbanSim visualization tool for use in outreach workshops on Plan Bay Area.

MTC and ABAG staffs are working closely with Professor Paul Waddell of the University of California to develop an open source visualization tool that integrates ABAG and MTC's land use and transportation models to generate analyses of alternative land use and transportation scenarios and detailed simulation of resulting development patterns. In addition, we are coordinating our efforts to provide consultant assistance to support ABAG staff in developing the Steelhead land use model.

ABAG's new Steelhead model, a spatially-explicit economic and land use model, and MTC's new activity-based travel model will produce outputs which are used by Professor Waddell's visualization tool. In the scope of work proposed under this contract amendment, Professor Waddell will assist ABAG modeling staff to enable the model to predict economic behavior based on detailed market and regulatory information stored at a parcel level and subsequently simulate economic behavior of developers and development patterns. A spatially-based economic behavioral and land use model that interfaces with the visualization tool will help bridge the land use and transportation modeling with scenario development and visualization.

Recommendation

Staff recommends that this Committee authorize the Executive Director or his designated representative to negotiate and enter into negotiation a contract amendment with The Regents of the University of California for \$150,000 to integrate ABAG's Steelhead land use model into the UrbanSim visualization tool for Plan Bay Area.

Steve Heminger

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REQUEST FOR COMMITTEE APPROVAL

Summary of Proposed Consultant Contract

Work Item No.:	1412
Consultant:	The Regents of the University of California Berkeley, California in association with Purdue University, West Lafayette, Indiana
Work Project Title:	UrbanSim Visualization Application for the Sustainable Communities Strategy/Regional Transportation Plan (SCS/RTP)
Purpose of Project:	Assist with the integration of ABAG's economic and land use model to facilitate the development an open source software system for visualizing alternative land use and transportation scenarios for nine-county Bay Area region.
Brief Scope of Work:	<ul style="list-style-type: none">• Identify a set of possible spatial metrics that could be used to refine the household and employment location choice models• Refine location choice models and test at parcel/building level• Generate user interface for encoding land use policies• Design computer assisted data cleaning tools
Project Cost Not to Exceed:	\$150,000 Total Contract to Date: \$600,000
Funding Source:	Proposition 84 Funds
Fiscal Impact:	Funds are included in the FY 2010-11 agency budget.
Motion by Committee:	That the Executive Director or his designee is authorized to negotiate and enter into a contract amendment with University of California to deliver the UrbanSim Visualization Application and the Chief Financial Officer is directed to set aside funds up to \$150,000 for such contract.
Administration Committee:	<hr/> Scott Haggerty, Chair
Approved:	Date: April 13, 2011